

July 22, 2015



Phillip Brooks
Air Enforcement Division Director
U.S. Environmental Protection Agency
MC 2242A
1200 Pennsylvania Ave.
Washington, D.C. 20460

Object: Lafarge – U.S. EPA Consent Decree Semi-Annual Report for the Joppa, IL facility

Dear Mr. Brooks,

Pursuant to section XII (Reporting Requirements) paragraph 106 of the Consent Decree entered in the matter of the United States v Lafarge North America Inc., et al, please find herewith the semi-annual report covering the period from January 1<sup>st</sup> to June 30<sup>th</sup>, 2015 for the Joppa, Illinois facility.

This report contains a table with daily production and mass emission data, as well as intensity rate data (lbs/ton of clinker). Except for the intensity rate, which Lafarge recognizes is necessary to demonstrate compliance with the emissions limits of this Consent Decree, the other daily data in the table would provide information regarding production and kiln capacity which Lafarge considers proprietary and should be treated as confidential business information.

Respectfully submitted,

Jean-Francois Latimier

Compliance Director, EPA projects

cc: per transmittal form attached

LAFARGE NORTH AMERICA INC. 13560 Morris Road, Suite 3350 ALPHARETTA, GA 30004 Main: (678) 746-2000 Fax: (678) 867-1450



## **DOCUMENT TRANSMITTAL**

13560 Morris Road Suite 3350

Affected Plant:

Date:

Tel: 678-746-2000 Fax: 678-867-1450

Alpharetta, GA, 30004

LAFARGE - U.S. EPA CONSENT DECREE

Jul 22, 2015 Joppa, IL

Issued to:

U.S. EPA

MC 2242A

1200 Pennsylvania Ave. NW Washington, D.C. 20460

Attention: Phillip Brooks

Distribution:

Name:	Copies:	Department/Agency/Company:	Location:
Phillip Brooks	Hard copy	U.S. EPA	Washington, D.C.
George Czerniak	Hard copy	U.S. EPA Region V	Chicago, IL
Chief, Environmental Enforcement Section	Hard copy	U.S. DOJ (NO. 90-5-2-1-08221)	Washington, D.C.
Raymond Pilapil	Hard copy	Illinois Environmental Protection Agency	Springfield, IL
Peter L. Keeley	Hard copy	Lafarge North America Inc.	Herndon, VA
Shaun Burke	E-Mail	U.S. EPA	Washington, D.C.
Robert Klepp	E-Mail	U.S. EPA	Washington, D.C.
Craig S. Campbell	E-Mail	Lafarge North America Inc.	Herndon, VA
Steven C. Kohl	E-Mail	Warner, Norcross & Judd LLP	Southfield, MI
Jean-Francois Latimier	E-Mail	Lafarge North America Inc.	Alpharetta, GA
Project File	Hard copy	Lafarge North America Inc.	Alpharetta, GA

### **DOCUMENTS**

DOCUMENT NO.

**DOCUMENT NAME** 

DOCUMENT DESCRIPTION

JPA-ALL-GEN-SA-033

JPA Jan-Jun 2015 Semi-Annual Report.pdf

Semi-Annual Report for Joppa – January-June 2015



Pla Joppa,	ant: Illinois
Revision:	0

**Contains Confidential Business Information** 

## **LAFARGE - U.S. EPA Consent Decree Semi-Annual Report**

Plant: Joppa

Affected state: Illinois

Reporting period: Jan 1, 2015 to Jun 30, 2015

### **Table of Contents**

1.	Introduction	2
2.	Information required under Paragraph 106 of the Consent Decree	2
	a. Progress of installation of Control Technologies	
	b. Progress of installation of CEMS.	
	c. Temporary Cessation of Kiln Operation.	
	d. CEMS data	
	e. Compliance with all applicable Demonstration-Phase Facility-Wide 12-Month Rolling Average Emission Limits	•
	f. Compliance with all applicable Facility-Wide 12-Month Rolling Average Emission Limits	3
	g. Compliance with all applicable 30-Day Rolling Average Emission Limits	4
	h. Compliance with all applicable 12-Month Rolling Tonnage Limits	
	i. Compliance with the Appendix of the Consent Decree	
	j. Compliance with any applicable 30-Day Rolling Average Emission Limits established under the Appendix of the Consent Decree	
	k. Status of the election made pursuant to Section VIII.	
	I. Status of actions undertaken pursuant to Section IX	
	m. Status of permit applications and any proposed SIP revisions	
	n. Status of any operation and maintenance work	
3.	Description of non-compliance	
4.	Certification	
	pendix A: CEMS Data for each Kiln	
	pendix B: Facility-wide 12-month rolling tonnage calculations	

Prepared by:	Duane Cannon	Date:	July 16, 2015	Page	1	of	15
File name: JPA J	an-Jun 2015 Semi-Annual Repor	rt.docx	Document number:	JPA-ALL-G	EN-SA-	033	



Pla	ant:
	Illinois
Revision:	0

### 1. Introduction

Pursuant to the terms of the Consent Decree between the Lafarge Companies, the United States and certain Affected States, several of Lafarge's U.S. cement plants are required to implement various control technologies on certain kilns in order to reduce sulfur dioxide (SO<sub>2</sub>) and/or nitrogen oxide (NO<sub>x</sub>) emissions.

A requirement of the Consent Decree is the submittal of a report after the end of each half calendar year. This document is the semi-annual report covering the period between January 1, 2015 and June 30, 2015 for the Joppa, Illinois plant under Section XII Paragraph 106 of the Consent Decree.

The structure of this document follows the requirements specified in the Consent Decree.

### 2. Information required under Paragraph 106 of the Consent Decree

The italicized text in this document are excerpts from the Consent Decree.

### a. Progress of installation of Control Technologies

"Identify any and all dates on which the Lafarge Companies have installed, or describe the progress of installation of, each Control Technology required under Section V (NO<sub>x</sub> Control Technology, Emission Limits, Tonnage Limits and Monitoring Requirements) and Section VI (SO<sub>2</sub> Control Technology, Emission Limits, Tonnage Limits and Monitoring Requirements), and describe any problems encountered or anticipated during such installation, together with implemented or proposed solutions"

Kiln	C.T.	Date of Installation	Progress of Installation	Problems Encountered	Implemented or Proposed Solutions
K1	SCR	Installed	Completed, operational as of July 31,2013	None	n/a

### b. Progress of installation of CEMS

"Identify any and all dates on which the Lafarge Companies have completed installation of, or describe the progress of installation of, each CEMS required under Section V.B (NO<sub>x</sub> Continuous Emission Monitoring Systems) and Section VI.B (SO<sub>2</sub> Continuous Emission Monitoring Systems), and describe any problems encountered or anticipated during such installation, together with implemented or proposed solutions"

Kiln CEMS	Date of Installation	Progress of Installation	Problems Encountered	Implemented or Proposed Solutions
K1	SO <sub>2</sub> July 1998 NO <sub>x</sub> Dec 2001	In operation since installation	None	N/A

Prepared by:	Duane Cannon	Dat e:	July 16, 2015	Page	2	of	15
File name: JPA J	an-Jun 2015 Semi-Annual Report	.docx	Document number:	JPA-ALL-G	EN-SA-	033	



Plant:
Joppa, Illinois
Revision: 0

### c. Temporary Cessation of Kiln Operation

"Identify any and all dates on which the Lafarge Companies Temporarily Ceased Kiln Operation pursuant to Section VII (Temporary Cessation of Kiln Operation)"

During the period covered by this report none of the Joppa, Illinois kilns subject to this Consent Decree have been subject to Temporary Cessation.

#### d. CEMS data

"Provide all CEMS data collected for each Kiln, including an explanation of any periods of CEMs downtime together with any missing data for which the Lafarge Companies applied missing data substitution procedures, under Section V.B (NO<sub>x</sub> Continuous Emission Monitoring Systems) and Section VI.B (SO<sub>2</sub> Continuous Emission Monitoring Systems)"

CEMS data collected for each kiln are in Appendix A of this document.

Kiln 2 did not operate between January and June 2015.

# e. Compliance with all applicable Demonstration-Phase Facility-Wide 12-Month Rolling Average Emission Limits

"Demonstrate compliance with all applicable Demonstration-Phase Facility-Wide 12-Month Rolling Average Emission Limits in Section V (NO<sub>x</sub> Control Technology, Emission Limits, Tonnage Limits and Monitoring Requirements) and Section VI (SO<sub>2</sub> Control Technology, Emission Limits, Tonnage Limits, and Monitoring Requirements) of the Consent Decree"

The Joppa, Illinois plant is not subject to a 12-Month rolling average emission limit per the Consent Decree.

### f. Compliance with all applicable Facility-Wide 12-Month Rolling Average Emission Limits

"Demonstrate compliance with all applicable Facility-Wide 12-Month Rolling Average Emission Limits in Section V (NO<sub>x</sub> Control Technology, Emission Limits, Tonnage Limits and Monitoring Requirements) and Section VI (SO<sub>2</sub> Control Technology, Emission Limits, Tonnage Limits, and Monitoring Requirements) of the Consent Decree"

The Joppa, Illinois plant is not subject to a 12-Month rolling average emission limit per the Consent Decree.



Pla	int:
Joppa,	Illinois
Revision:	0

### g. Compliance with all applicable 30-Day Rolling Average Emission Limits

"Demonstrate compliance with all applicable 30-Day Rolling Average Emission Limits of this Consent Decree, including but not limited to those in Sections V (NO<sub>x</sub> Control Technology, Emission Limits and Monitoring Requirements) and VI (SO<sub>2</sub> Control Technology, Emission Limits and Monitoring Requirements) of this Consent Decree"

The implementation of the Control Technologies is not yet at a stage where a 30-Day rolling average is applicable.

### h. Compliance with all applicable 12-Month Rolling Tonnage Limits

"Demonstrate compliance with all applicable 12-Month Rolling Tonnage Limits under Sections V (NO<sub>x</sub> Control Technology, Emission Limits, Tonnage Limits, and Monitoring Requirements) and VI (SO2 Control Technology, Emission Limits, Tonnage Limits, and Monitoring Requirements)"

Based on the CEMS data supplied in Appendix B compliance was achieved throughout the period as demonstrated by the maximum actual Facility-wide 12-month rolling tonnages listed in the table below:

	N	O <sub>x</sub>	SO <sub>2</sub>		
	Facility-wide 12- month rolling tonnage limit	Maximum actual Facility-wide 12-month rolling tonnage for the reported period	Facility-wide 12- month rolling tonnage limit	Maximum actual Facility-wide 12-month rolling tonnage for the reported period	
K1-K2	3,500 tons	470 tons	1,757 tons	440 tons	

Detailed data can be found in Appendix B.

### i. Compliance with the Appendix of the Consent Decree

"Provide a complete description and status of all actions the Lafarge Companies have undertaken to comply with the Appendix of this Consent Decree"

Joppa K1 SCR	Submitted/ Started on:	Approved/ Completed on:	Status
Design Report	Oct 27, 2010	Jul 25, 2011	Approved
Baseline Data collection Report	Feb 13, 2013	Mar 30, 2013	No comments received
Optimization Protocol	Feb 14, 2013	Apr 1, 2013	Approved
Optimization Period	Jul 31,2013	Dec 17, 2013	Completed
Optimization Report	Jan 16, 2014	Mar 20, 2014	Approved
Demonstration Period	Mar 22, 2014	Feb 28, 2015	Completed
Final Report	April 23, 2015	TBD	Under review

Pre par edb y:	Duane Cannon	Dat e:	Jul y 16, 2015	Page	4	of	15
File name: JPA J	an-Jun 2015 Semi-Annual Report	.docx	Document number :	JPA-ALL-GI	EN-SA-	033	77



Pla	nt.
Joppa,	Illinois
Revision:	0

# j. Compliance with any applicable 30-Day Rolling Average Emission Limits established under the Appendix of the Consent Decree

"Demonstrate compliance with any applicable 30-Day Rolling Average Emission Limits established under the Appendix of this Consent Decree"

The implementation of the Control Technologies is not yet at a stage where a 30-Day rolling average is applicable.

### k. Status of the election made pursuant to Section VIII

"Describe the status of the election made pursuant to Section VIII (Election to Retire and Replace Kilns) of this Consent Decree"

Section VIII of the Consent Decree is not applicable to the Joppa, Illinois plant.

### I. Status of actions undertaken pursuant to Section IX

"If applicable, describe the status of actions undertaken pursuant to Section IX Prohibition on Netting Credits or Offsets from Required Controls of this Consent Decree"

Section IX of the Consent Decree is not applicable to the Joppa, Illinois plant for the period covered by this report.

### m. Status of permit applications and any proposed SIP revisions

"Describe the status of permit applications and any proposed SIP revisions required under this Consent Decree"

	Application submitted on:	Approved on:	Status
SCR Construction Permit Application	Jun 19, 2012	Sep 27, 2012	Permit 12060038 issued
Proposed SIP revision	None submitted	n/a	n/a

### n. Status of any operation and maintenance work

"Describe the status of any operation and maintenance work relating to activities required under this Consent Decree"

Routine maintenance inspections of the control technology equipment are carried out periodically. A maintenance program has been developed based on available vendors' recommendations.

Prepared by:	Duane Cannon	Date:	July 16, 2015	Page	5	of	15
File name: JPA J	File name: JPA Jan-Jun 2015 Semi-Annual Report.docx		Document number: JPA-ALL-GEN-SA-033				



Pla	ant:
Joppa,	Illinois
Revision:	0

### 3. Description of non-compliance

"The semi-annual report shall also include a description of any non-compliance requirements of this Consent Decree and an explanation of the violation's likely cause and of the remedial steps taken, or to be taken, to prevent or minimize such violation"

No non-compliance has been observed during the period covered by this report.

### 4. Certification

500

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Signature: Marke &	Julie Date: 7-17-15
Name (Print): Michael Klenk	Position: Plant Manager



	ant:
Joppa,	Illinois
Revision:	0

Appendix A: CEMS Data for each Kiln

Prepared by:	Duane Cannon	Date:	July 16, 2015	Page	7	of	15
File name: JPA	lan-Jun 2015 Semi-Annual Report.docx		Document number:	JPA-ALL-GI	EN-SA-	033	



Pla	nt:
Joppa,	Illinois

Revision:

0

U.S. EPA Consent Decree Semi-Annual Report CEMS Data Contains Confidentia Business Information

Joppa, Illinois

Dala collection period: Submittal date: 01 Jan 2015 - 30 Jun 2015 16 July 2015

(\*) CONFIDENTIAL BUSINESS INFORMATION

ays in		Kiln (clinker)	Stack		Stack		CEMO	Malfunction documentation		Data gap documentation
orting eriod	Date	production (*)	Mass (*)	Intensity Lib/ton KK]	Mass (*)	Intensity  [lb/ton KK]	CEMS incident type	Explanation	Missing data	Explanation
1	2015.01.01	Non-Res	sponsive	0.52	Non-Responsive Non-Responsive	0.03				
2	2015.01 02	Non-Res	enoneive	/A	Non-Responsive	/A			All data	Kiln down for winter Outage
3	2015.01.03	NOHEROS	sponsive	/A	Non-Responsive	/A			All data	Kiln down for winter Outage
4	2015.01.04	Non-Res	sponsive	/A	Non-Responsive	/A			All data	Kiln down for winterOutage
5		Non Dec		/A		/A	}		All data	Kfin down for winter Outage
	2015.01.05	Non-Res	sponsive	2°	Non-Responsive	/A	1		Alt data	Kiln down for winter Outage
6	2015 01 06	Non-Ros	enoneive	/A	Non-Responsive	/A /A	1 3		All data	Klin down for winter Outage
7	2015.01.07	NOHEROS	sponsive	/A					All data	Kin down for winter Outage
8	2015,01.08	Non-Res	sponsive	/A	Non-Responsive	/A				
9	2015.01.09	Non Boo	oponoive	/A	Non-Responsive	/A	1		All data	Klin down for winter Outage
10	2015.01.10	NOH-RES	sponsive	/A		/A			All data	Kiln down for winter Outage
11	2015 01 11	Non-Res	sponsive	/A	Non-Responsive	/A			All data	Kiln down for winter Outage
12	2015.01.12	Non Roc	pporioire	/A	Non-Responsive	/A	1		All data	Kiln down for winter Outage
13	2015 01.13	Non-Res	sponsive	/A		/A			All data	Kiln down for winter Outage
14	2015.01 14	Non Por	shonsive	/A		/A			All data	Kiln down for winter Outage
15	2015 01 15	NOH-KES	sponsive	/A	Non-Responsive	/A	i .		All data	Klin down for winter Outage
16	2015.01.18	Non-Res	sponsive	/A	Non-Responsive	/A			All data	Klin down for winter Outage
17		Non De	an an air	/A	Non-Responsive	/A			All data	Kiln down for winter Outage
	2015.01.17	Non-Res	sponsive	/A	Non-Responsive	/A			All data	Hin down for winter Outage
18	2015,01.18	Non-Res	sponsive	"	Non-Responsive				All data	Kiln down for winter Outage
19	2015.01.19	NOT TOO	Sponsive	/A	Non-Responsive	/A				
20	2015.01.20	Non-Res	sponsive	/A	Non-Responsive	/A			All data	Kiln down for winter Outage
21	2015.01.21	Non Pos	noncire	/A	Non-Responsive	/A				
22	2015 01 22	NOH-RES	sponsive	/A		/A	1			4
23	2015.01.23	Non-Res	snonsive	1.94	Non-Responsive	2.33	1		1	I .
24	2015.01.24	Non Dec	Sporioive	0.57	Non-Responsive	0.00	Malfunction	unsucessfull calibration - 1 hr	Multiple data	Part 75 applied
25	2015_01.25	Non-Res	sponsive	0.32		0.15	Malfunction	unsucessfull calibration - 7 hrs	Muttiple data	Part 75 applied
26	2015 01.26	Non-Pos	enoneive	0.55	Non-Responsive	0.24				
27	2015.01.27	MOHINES	shousive	0.33	Non-Responsive	0.48				(A)
28	2015.01 28	Non-Res	sponsive	0.26		0.32	1	_		
		Non Dog	on on oil to	0.29	Non-Responsive	0.05	Malfunction	maitenance on sample system - 1 hr	Multiple data	Part 75 applied
29	2015.01.29	Non-Res	sponsive		Non-Responsive	0.04	Manuficion	materiance on sample system - 7 m	Walipic data	Tak 15 applied
30	2015.01.30	Non-Res	snonsive	0.52			1		1	1
31	2015.01.31	NOIT INCO	phousisc	0.28	Non-Responsive	0.02			A	
32	2015.02.01	Non-Res	sponsive	0.30	Non-Responsive	0.02	1		T	
33	2015.02.02	Non-Pos	choncive	1.26		0.32	1		1	
34	2015 02.03	MOHINES	shousive	0.53	Non-Responsive	0.40	1		3	
35	20 15 02 04	Non-Res	sponsive	0.41	Non-Responsive	0.03	1		1	1
36	2015.02.05	Non Dog	op op oil re	0.36		0.02			1	
37	2015.02.06	Non-Res	sponsive	0.33	Non-Responsive	0.01			3	
38	2015.02.07	Non-Res	snonsive	0.55	Non-Responsive	0.02	1		- 1	
39		NOIT INCO	phougisc	0.39		0.03			1	
	2015.02.08	Non-Res	sponsive	0.26	Non-Responsive	0.03				
40	2015.02.09	Non-Ros	enoneive		Non-Responsive	0.02				
41	2015.02 10	NOHEINES	shousive	0.35						
42	2015.02 11	Non-Res	sponsive	0.32	Non-Responsive	0.03				
43	2015.02.12	Non De	an an air	0.35	Non-Responsive	0.03				
44	2015.02.13	NOII-RES	sporisive	0.27	Non-Responsive	0.10	1			
45	2015.02 14	Non-Res	sponsive	0.27	Non-Responsive	0.01				
46	2015.02.15	TOIL LOC	sponsive	0.18	Non-Responsive	0.04			1	
47	2015.02.18	Non-Res	sponsive	0.21	Non-Responsive	0.12			1	
48	2015.02.17	Non Pos	enoncia	WA.	Non-Responsive	/A	1		All data	Kiin was down
49	2015.02.18	Non-Kes	spunsive	N/A	Non-Responsive	/A	1			
50	2015.02 19	Non-Res	sponsive	10.55		24.22	T	1		
51	2015.02.19	Non De	an an air	6.21	Non-Responsive	0.82	Malfunction	unsucessfull calibration - 1 hr	Multiple data	Part 75 applied
		Non-Res	sponsive	0.15	Non-Responsive	0.02	anunceon	ondesoddium caupration - 1 m	Industria data	
52	2015.02.21	Non-Res	sponsive			0.11			1	
53	2015.02.22	NOT RES	2housing	0.95	Non-Responsive			use use of the line of he	Multiple det-	Red 75 applied
54	2015.02.23	Non-Res	sponsive	2.45	Non-Responsive	0.14		unsucessfull calibration - 1 hr	Multiple data	Part 75 applied
55	2015.02.24	Non Do	noncia	0.63	Non-Responsive	0.15	Matfunction	unsucessfull calibration - 2 hrs	Multiple data	Part 75 applied
56	2015.02.25	NOTI-RES	sponsive	2.12	Non-Responsive	1.23				
57	2015.02.26	Non-Res	sponsive	2.70	Non-Responsive	1.47				
58	2015.02.27	NOIT TOO	Shoulaine	2.04	Non-Responsive	1.65	1		1	T .
59	2015 02.28	Non-Res	sponsive	1.02	Non-Responsive	0.70		L.		
60	2015.03.01	Non Bos	noncire	0.88	Non-Responsive	0.52			1	
61	2015.03.02	NOTIFICES	sponsive	0.54	Non-Responsive	0.07				
				0.54	New Deepership	0.07	A.		.1	·

Prepared by: Duane Cannon Date: July 16, 2015 Page 8 of 15
File name: JPA Jan-Jun 2015 Semi-Annual Report.docx Document number: JPA-ALL-GEN-SA-033



Pla	int:
Joppa,	Illinois
Revision:	0

U.S. EPA Consent Decree Semi-Annual Report CEMS Data Contains Confidential Resident information

Joppa, Illinois

Data collection period; Submittal date: 01 Jan 2015 - 30 Jun 2015 16 July 2015

Days in		Kiln (clinker)	Stack	NO <sub>x</sub>	Slack	SO <sub>2</sub>		Malfuncti on document ation		Data gap documentation
reporting		production (*)	Mass (*)	Inlensi ty	Mass (*)	Intensity	CEMS	- Interior	Mission dete	Explanation
period	Date	[ton/d]		[lb/t onKK]	[Ib/d] Non-Responsi	[lb/ton KK] 1,22	incident type	Explanation	Missing data	Explanation
62	2015.03.03	Non-Re	sponsiv	1.73 1.66	Non-Responsi	0.35				
63 64	2015 03.04 2015 03.05	Non-Re	sponsiv	/e 1.84	Non-Responsi	0.33			1	1
65	2015.03.08	Non Bo		1.47	Non-Responsi Non-Responsi	1.84			1	1
68	2015.03.06	NOH-RE	sponsiv	1.15	Non-Responsi	1.12			1	1
67	2015.03.08	Non-Re	sponsiv	1.34	Non-Responsi	0.25	i 1			1
68	2015.03.09	Non-Re	enoneiv	1.85	Non-Responsi	1.50				
89	2015 03 10	NOITE	shousin	1.34	Non-Responsi Non-Responsi	0.43				
70	2015,03.11	Non-Re	sponsiv	1.14	Non-Responsi	1.12				
71	2015.03 12	Non-Re	sponsiv	0.80	Non-Responsi	1.39	Malfunction	sample system plugged - 4 hrs	Multiple data	Part 75 applied
72	2015.03 13	Non Ro	openei	1.20	Non-Responsi Non-Responsi	0.93				1
73	2015.03.14	Non-Re	sponsiv	0.63	Non-Responsi	0.59				1
74	2015.03.15	Non-Re	sponsiv	1.30	Non-Responsi	1.87 1.25	Malfunction	sample system maintenance - 1 hr	Multiple data	Part 75 applied
75	2015.03.18	Non-Po	enoneiv	0.83 (e 1.89	Non-Responsi Non-Responsi	0.62	Matfunction	sample system maintenance - 1 hr	Multiple data	Part 75 applied
76 77	2015.03.17 2015.03.18	I AOI I-IZE	ahonain	3.09	Non-Responsi	1.34	Medianon	Sample System manitemation - 1 m	prairie data	
78	2015.03.18	Non-Re	sponsiv	1.45	Non-Responsi	0.89				1
79	2015.03.19	Non-Re	sponsiv	1.60	Non-Responsi Non-Responsi	0.82				
80	2015 03 21	Non Ro	opendi	2.28	Non-Responsi	1.56				
81	2015 03.22	Mon-Ke	sponsiv	2.64	Non-Responsi	3.11				
82	2015.03.23	Non-Re	sponsiv	2.68	Non-Responsi	2,31				
83	2015.03 24	Non-Po	enonei	1.42	Non-Responsi Non-Responsi	1.11				
84	2015,03.25	NOH-IXE	shousin	2.66	Non-Responsi	2.48	1			
85	2015.03.28	Non-Re	sponsiv	2.69	Non-Responsi	1.57 2.02	Malfunction	unsuccessful call bration- 4 hrs	Multiple data	Part 75 applied
86	2015.03.27	Non-Re	sponsiv	2.28 3.19	Non-Responsi Non-Responsi	3.73	Manuncoon	unsuccessial can bration 4 ms	Iwatopic data	анто арриса
87 88	2015.03 28 2015.03.29	Non Do	openei	4.19	Non-Responsi	2.17				(V
89	2015 03 30	Non-Re	sponsiv	3,56	Non-Responsi	2.80				1
90	2015.03.31	Non-Re	sponsiv	1.91	Non-Responsi	1.98	L			1
91	2015.04.01	Non-Re	enoneiv	2.81	Non-Responsi Non-Responsi	3.40	Malfunction	unsuccessful cali bration - 2 hrs	Multiple data	Part 75 applied
92	2015 04.02	Non Ro	Sporisiv	3.23	Non-Responsi	1.55			1	
93	2015.04.03	Non-Re	sponsiv	3.12	Non-Responsi	1.76 2.72			1	
94	2015.04.04	INon-Re	sponsiv	/e 2.58 2.73	Non-Responsi	1.65				
95 96	2015 04.05	Non-Po	enoneiv	1.77	Non-Responsi	0.17	1		1	
97	2015.04 07	MOII-IXE	sponsiv	1.79	Non-Responsi	0.07	II 0		1	
98	2015 04 08	Non-Re	sponsiv	1.63	Non-Responsi	0.59				
99	2015.04.09	Non-Re	sponsiv	0.98	Non-Responsi	0.14	10 8		1	
100	2015.04.10	Non Po	cponciv	1.59	Non-Responsi	0.10	10 1			
101	2015.04.11	14011-176	abousiv	1.05	Non-Responsi	0.07			1	
102	2015.04.12	Non-Re	sponsiv	/e 2.97 2.58	Non-Responsi	0.05 0.13				
103 104	2015 04,13 2015.04 14	Non-Re	sponsiv	2.58	Non-Responsi	0.13				
104	2015.04 14	Non Ro	opensi	3.25	Non-Responsi	0.23				
106	2015.04.18	MOLI-KE	shousiv	4.46	Non-Responsi	0.03				
107	2015 04 17	Non-Re	sponsiv	3,80	Non-Responsi	0.05	Malfunction	unsuccessful cali bration- 3 hrs	Multiple data	Part 75 applied
108	2015.04.18	Non-Re	sponsiv	4.28	Non-Responsi	0.06				
109	20 15 04 19	Non D	oponoly	4.53	Non-Responsi	0.16	Malfunction	unsuccessful calibration - 6 hrs	Multi ple data	Part 75 applied Part 75 applied
110	2015.04.20	Inon-Re	sponsiv	1.29	Non-Responsi Non-Responsi	0.03	Malfunction Malfunction	unsuccessful calibration - 3 hrs	Multi ple data Multi ple data	Part 75 applied
111	2015.04.21	Non-Re	sponsiv	/e 1.72 1.61	Non-Responsi	0.25	maitunes on	sample system plugged - 3 hrs	India picuata	att to applied
112 113	2015.04.22	Non-Po	enonei	2.17	Non-Responsi	0.02				
114	2015.04.23	I ADII-IKE	sponsiv	4.30	Non-Responsi	0.14				
115	2015.04.25	Non-Re	sponsiv	4.88	Non-Responsi	0.77			1	
116	2015,04.26	Non-Re	sponsiv	5.36	Non-Responsi	0.53			1	
117	2015 04.27	Non Da	oponoli	2.84	Non-Responsi	0.31				
118	2015.04.28	Mon-Ke	sponsiv	1.48	Non-Responsi Non-Responsi	0.30				
119	2015.04 29	Non-Re	sponsiv	2.01	Non-Responsi	0.27				
120	2015.04.30	Non-Ro		1.91	Non-Responsi	0.12				
121	2015.05.01	14011-176	sponsiv	2.91 2.48	Non-Responsi Non-Responsi	0.68 0.78				
122	2015.05.02	4		2.48	Non-Responsi	VB U.76	1	ķ.	8.9%	£:

Prepared by:	Duane Cannon	Date:	July 16, 2015	Page	9	of	15
File name: JPA	an-Jun 2015 Semi-Annual Report.docx		Document number:	JPA-ALL-GI	EN-SA-	033	



Plant: Joppa, Illinois

Revision:

0

U.S. EPA Consent Decree Semi-Annual Report CEMS Data Contains Guididudia
Contains Information

Jopos\_Illinois

Data collection period: Submittal date: 01 Jan 2015 - 30 Jun 2015 16 July 2015

Date	S INFORMATION
Date	
122 2015.05.03	
124   2015 05 04   125 2015 05 06   127 2015 05 07   126 2015 05 08   127 2015 05 08   128 2015 05 08   128 2015 05 08   128 2015 05 08   128 2015 05 08   128 2015 05 08   128 2015 05 08   128 2015 05 08   128 2015 05 08   128 2015 05 08   128 2015 05 08   128 2015 05 08   128 2015 05 08   128 2015 05 08   128 2015 05 19   12	
125 2015 0.5 0.5 12	
126	
127   2015.05.07   128   2015.05.07   128   2015.05.09   129   2015.05.09   129   2015.05.09   120   2015.05.10   120	
128   2015.05.08   129   2015.05.09   130   2015.05.10   131   2015.05.11   132   2015.05.12   2.00   2.0	
129	
130	
131 2015.05.11 132 2015.05.12 133 2015.05.13 134 2015.05.15 135 2015.05.15 136 2015.05.16 137 2015.05.17 138 2015.05.17 139 2015.05.17 139 2015.05.17 130 2015.05.17 130 2015.05.17 130 2015.05.17 130 2015.05.18 131 2015.05.18 132 2015.05.18 133 2015.05.18 134 2015.05.18 135 2015.05.18 137 2015.05.17 138 2015.05.18 139 2015.05.18 140 2015.05.29 141 2015.05.20 141 2015.05.20 142 2015.05.20 143 2015.05.20 144 2015.05.20 144 2015.05.20 145 2015.05.20 146 2015.05.20 147 2015.05.20 148 2015.05.20 149 2015.05.20 149 2015.05.20 149 2015.05.20 149 2015.05.20 149 2015.05.20 149 2015.05.20 149 2015.05.20 149 2015.05.20 149 2015.05.20 149 2015.05.20 149 2015.05.20 149 2015.05.20 149 2015.05.20 149 2015.05.20 149 2015.05.20 149 2015.05.20 149 2015.05.20 149 2015.05.20 140 20	
132   2015.05.12   3015.05.13   313   2015.05.14   315   2015.05.16   316   2015.05.16   317   2015.05.16   318   2015.05.16   319   2015.05.16   319   2015.05.16   319   2015.05.26   319	
133 2015.05.13	
135   201   1.05   1.64   1.	
136 2015.05.16 137 2015.05.17 2015.05.17 2015.05.17 2015.05.19 2015.05.29 201	
137 2015.05.17 138 2015.05.18 139 2015.05.19 140 2015.05.20 141 2015.05.21 142 2015.05.22 143 2015.05.25 144 2015.05.25 145 2015.05.25 146 2015.05.25 146 2015.05.25 147 2015.05.25 148 2015.05.25 149 2015.05.20 149 2015.05.20 140 2015.06.20 140 20	
138	
139	
140	
141   2015.05.27   142   2015.05.27   2015.05.25   2015.05.25   143   2015.05.25   144   2015.05.25   145   2015.05.25   146   2015.05.25   147   2015.05.25   148   2015.05.25   148   2015.05.27   148   2015.05.27   148   2015.05.27   148   2015.05.27   148   2015.05.27   148   2015.05.27   148   2015.05.27   148   2015.05.29   1.99   1.99   1.50	
142 2015.05.23	
143 2015.05.28	
Non-Responsive   3.41	
145	
146 2015.05.28 147 2015.05.27 148 2015.05.29 150 201 1.05.30 151 2015.06.02 150 201 1.06.00 11 153 2015.06.02 155 2015.06.00 155 2015.06.00 155 2015.06.00 155 2015.06.00 155 2015.06.00 155 2015.06.00 155 2015.06.00 155 2015.06.00 155 2015.06.00 155 2015.06.00 155 2015.06.00 156 2015.06.10 156 2015.06.10 1	
147 2015.05.28	
148   2015.05.28   149   2015.05.28   150   2015.05.30   151   2015.05.30   152   2015.06.02   153   2015.06.02   154   2015.06.05   155   2015.06.06   156   2015.06.06   158   2015.06.16   158   2015.06.16   158   2015.06.15   159   2015.06.16   158   2015.06.15   159   2015.06.16   158   2015.06.16   158   2015.06.16   158   2015.06.16   158   2015.06.16   158   2015.06.16   158   2015.06.16   158   2015.06.16   158   2015.06.16   158   2015.06.16   158   2015.06.18   150   2015.	
149	
150	
151   2015.05.31   152   2015.06.02   153   2015.06.02   154   2015.06.05   155   2015.06.05   156   2015.06.05   157   2015.06.06   158   2015.06.06   158   2015.06.06   158   2015.06.06   158   2015.06.06   158   2015.06.06   158   2015.06.06   158   2015.06.06   158   2015.06.06   160   2015.06.06   161   2015.06.10   162   2015.06.11   163   2015.06.15   165   2015.06.15   165   2015.06.15   165   2015.06.15   166   2015.06.15   167   2015.06.15   167   2015.06.16   168   2015.06.15   167   2015.06.16   168   2015.06.16   168   2015.06.18   169   2015.06.18   160   2015.06.18   160   2015.06.18   166   2015.06.15   167   2015.06.16   168   2015.06.15   167   2015.06.18   167   2015.06.18   167   2015.06.18   167   2015.06.18   168   2015.06.18   169   2015.06.18   170   2015.06.18   170   2015.06.18   170   2015.06.18   170   2015.06.18   170   2015.06.18   170   2015.06.18   170   2015.06.18   170   2015.06.18   170   2015.06.18   170   2015.06.18   170   2015.06.18   170   2015.06.18   170   2015.06.18   170   2015.06.18   170   2015.06.18   170   2015.06.19   2015.06.19   2015.06.18   170   2015.06.19   2015.06.18   170   2015.06.19   2015.06.18   170   2015.06.18   170   2015.06.19   2015.06.19   2015.06.18   170   2015.06.19   2015.06.	
152   2015.06.02   154   2015.06.03   155   2015.06.06   156   2015.06.06   157   2015.06.06   158   2015.06.06   159   2015.06.06   160   2015.06.06   161   2015.06.10   162   2015.06.11   163   2015.06.12   166   2015.06.14   166   2015.06.15   167   2015.06.16   168   2015.06.16   168   2015.06.16   168   2015.06.16   168   2015.06.16   168   2015.06.16   168   2015.06.16   168   2015.06.16   168   2015.06.16   168   2015.06.16   168   2015.06.16   168   2015.06.16   168   2015.06.16   168   2015.06.16   168   2015.06.16   168   2015.06.18   169   2015.	
153   2015.06.02   2015.06.03   155   2015.06.00   156   2015.06.00   157   2015.06.00   158   2015.06.00   159   2015.06.00   160   2015.06.10   161   2015.06.10   162   2015.06.10   163   2015.06.10   165   2015.06.10   166   2015.06.10   166   2015.06.10   167   2015.06.10   168   2015.06.10   168   2015.06.10   168   2015.06.10   168   2015.06.10   168   2015.06.10   168   2015.06.10   168   2015.06.10   168   2015.06.10   168   2015.06.10   168   2015.06.10   169   2015.06.10   169   2015.06.10   160   2015.06.10	
154   2015.06.03   2015.06.04   2015.06.05   2015.06.06   2015.06.06   2015.06.06   2015.06.08   2015.06.08   2015.06.08   2015.06.08   2015.06.08   2015.06.08   2015.06.08   2015.06.08   2015.06.09   2015.06.09   2015.06.09   2015.06.09   2015.06.09   2015.06.09   2015.06.10   2015.06.10   2015.06.11   2015.06.12   2015.06.15   2015.06.15   2015.06.15   2015.06.15   2015.06.15   2015.06.16   2015.06.15   2015.06.16   2015.06.16   2015.06.16   2015.06.16   2015.06.16   2015.06.16   2015.06.16   2015.06.18	
156	
157   2015.06.08   2015.06.08   2015.06.09   2015.06.09   2015.06.09   2015.06.10   2015.06.11   2015.06.15   2015.06.16   2015.06.16   2015.06.16   2015.06.16   2015.06.16   2015.06.18   2015.06.18   2015.06.18   2015.06.18   2015.06.18   2015.06.19	
158	
159   2015.08.08   2015.08.09   2015.08.09   2015.08.09   2015.08.09   2015.08.09   2015.08.19	
160	
161	
162 2015.06.11 163 2015.06.12 2015.06.12 164 2015.06.15 165 2015.06.15 166 2015.06.16 168 2015.06.16 168 2015.06.16 168 2015.06.18 169 2015.06.18 169 2015.06.18 170 2015.06.18 170 2015.06.19 170 2015.0	
163 2015.06.12	
164   2015.06.13   All data   A	
165   2015.06.15   Non-Responsive\(\mathbb{N}\)   Non-Respon	
166   2015.06.15   Non-Responsive V/A   Non-Respo	
167 2015.06.16 Non-Responsive VA Non-Responsive	
168 2015.08.17 169 2015.08.18 170 2015.06.19 Non-Responsive VA Non	
169 2015,06,18 Non-Responsive VIA Non-Responsive VIA Non-Responsive VIA Non-Responsive VIA Non-Responsive VIA	
170 2015.06.19 Non-Responsive WA	
111 ZV13.00.20   MINISTER SECTION   V.07   MINISTER V.03	
172 2015.08.21 Non Responsive 1.69 Malfunction unsuccessful calibration - 2 hrs Multiple data Part 75 applied	
173 2015.08.22 NOIT-RESPONSIVE 2.77 Confrequence 0.74	
174 2015.06.23 Non-Responsive 2.63 Non-Responsi 1.16	
175 2015.0624 Non-Responsive 2.22 0.59 0.59	
176 2015.06.25 Non-Responsive 1.31 Non-Responsive 0.07	
177 2015.06.26 Non Responsive 2.05 Non Responsi	
178 2015.06.27 NOIT-RESPONSIVE 2.09 Non-Respons 0.68	
179 2015.08.28 Non-Responsive 2.44 Contagnet 1.37	
180 2015.06.29 Non-Responsive 1.25 Non-Respons 0.33 Non-Respons	
181 2015.06.30 2.74 3.30 1.30	

Prepared by:	Duane Cannon	Date:	July 16, 2015	Page	10	of	15
File name: JPA Ja	n-Jun 2015 Semi-Annual Report.	docx	Document number: JPA-ALL-GEN-SA-033				



Plant: Joppa, Illinois

Revision:

0

U.S. EPA Consent Decree Semi-Annual Report CEMS Data Contains Confidential
Debugs Information

Joppa, Illinois

Data collection period: Submittal date: 01 Jan 2015 - 30 Jun 2015 16 July 2015

Days in		Kiln (clinker)	Stac	k NO <sub>x</sub>	Stac	k SO <sub>2</sub>		Malfunction documentation		Data gap documentation
eporting		production (*)	Mass (*)	Intensity	Mass (*)	Intensity	CEMS	Expla nation	Missing data	Explanation
period	Date	[ton/d]	[lb/d]	[lb/ton KK]	[lb/d]	N/A	incident type	E-PARIATION	All data	Kiln was down
1	2015.01.01	Non-Responsiv	/e	N/A		N/A	1 1		All data	Kiln was down
2	2015 01.02	Non-Responsiv	/e	N/A		N/A			All data	Kiln was down
3	2015,01.03	Non-Responsiv	ve	N/A N/A		N/A	1 1		All data	Kiin was down
4	2015.01.04	Non-Responsiv	ve ve			N/A	1 1		All data	Kiln was down
5	2015.01.05	Non-Responsiv	/e	N/A		N/A	1		All data	Kiin was down
6	2015.01.06	Non-Responsiv	/e	N/A		N/A	1 1		All data	Kin was down
7	2015.01.07	Non-Responsiv	/e	N/A			1 4		All data	Kin was down
8	2015 01.08	Non-Responsiv	/e	N/A		N/A	1 1		All data	Klin was down
9	2015.01.09	Non-Responsiv	/e	N/A		N/A N/A	1		All data	Kin was down
10	2015.01.10	Non-Responsiv	/e	N/A			1 1		All data	Kiln was down
11	2015.01_11	Non-Responsiv	/e	N/A	1	N/A			All data	Kiin was down
12	2015.01.12	Non-Responsiv	/e	N/A		N/A	1 1		All data	Kiln was down
13	2015 01.13	Non-Responsiv	ve	N/A		N/A	1 1		All data	Kiin was down
14	2015.01.14	Non-Responsiv	/e	N/A		N/A	1 1		All data	Kiin was down
15	2015.01.15	Non-Responsiv	ve	N/A	1	N/A	1 4			Kiin was down
16	2015.01.16	Non-Responsi	/ <del>C</del>	N/A		N/A			All data	
17	2015.01,17	Non-Responsiv	/e	N/A		N/A			All data	Kiin was down
18	2015.01.18	Non-Responsiv	ve	N/A		N/A			All data	Kiin was down
19	2015 01.19	Non-Responsiv	/e	N/A		N/A	1 7		All data	Kiin was down
20	2015.01.20	Non-Responsiv	ve	N/A		N/A	1		All data	Kiin was down
21	2015.01.21	Non-Responsiv	ve	N/A		N/A	1 1		All data	Kiln was down
22	2015.01.22	Non-Responsiv	/e	N/A		N/A	1 3		All data	Kiln was down
23	2015.01.23	Non-Responsiv	/e	NVA	1	N/A	1 1		All data	Kiln was down
24	2015.01.24	Non-Responsiv	/e	N/A		N/A			All data	Kilnwas down
25	2015 01.25	Non-Responsiv	ve	N/A		N/A			All data	Kiln was down
26	2015.01.26	Non-Responsiv	/e	N/A		N/A	1 1		Alt data	Kiin was down
27	2015.01.27	Non-Responsiv	ve ve	N/A		N/A	i I		All data	Kiln was down
28	2015.01.28	Non-Responsiv	/e	N/A	1	N/A	1 1		All data	Kiin was down
29	2015.01.29	Non-Responsiv	/e	N/A	10	N/A	1		Alt data	Kiin was down
30	2015.01.29	Non-Responsiv	ve	N/A		N/A	1 1		Ali data	Kiln was down
31	2015.01.30	Non-Responsiv	/e	N/A	i	N/A	1 1	lii	All data	Kiln was down
32	2015.01.31	Non-Responsiv	/e	N/A		N/A			All data	Kin was down
		Non-Responsi	/e	N/A	!	N/A	1 3		All data	Klin was down
33 34	2015.02.02	Non-Responsiv	/e	N/A	1	N/A			All data	Kiln was down
	2015.02.03	Non-Responsiv	/e	N/A	I	N/A	1		All data	Kiin was down
35	2015.02.04	Non-Responsiv	/e	N/A	t .	N/A	1		All data	Kiin was down
36	2015 02.05	Non-Responsiv	ve	N/A	1	N/A	1 .		All data	Kiln wes down
37	2015 02 06	Non-Responsiv	ve ve		1	N/A			All data	Klin was down
38	2015.02.07	Non-Responsiv	/e	N/A	1				All data	Kiin was down
39	2015.02.08	Non-Responsiv	/e	N/A	1	N/A			All data	Kiin was down
40	2015.02.09	Non-Responsiv	/e	N/A	1	N/A N/A			All data	Kiln was down
41	2015.02.10	Non-Responsiv	/e	N/A	1				All data	Kiin was down
42	2015 02.11	Non-Responsiv	/e	N/A		N/A			All data	Kiin was down
43	2015 02 12	Non-Responsi	/ <del>C</del>	N/A	1	N/A				Kiln was down
44	2015.02.13	Non-Responsiv	/e	N/A		N/A			All data	Kiin was down
45	2015.02 14	Non-Responsiv	ve	N/A	1	N/A			All data	
46	2015.02.15	Non-Responsiv	ve	N/A		N/A			All data	Kiln was down
47	2015,02.16	Non-Responsiv	ve	N/A	l.	N/A			All data	Klin was down
48	2015.02.17	Non-Responsi	/ <del>e</del>	N/A	1	N/A			All data	Kitn was down
49	2015.02.18	Non-Responsi	/e	N/A	1	N/A			All data	Klin was down
50	2015.02.19	Non-Responsiv	ve	N/A		N/A	1		All date	Kiln was down
51	2015.02.20	Non-Responsiv	/e	N/A	1	N/A			All data	Kiln was down
52	2015_02.21	Non-Responsiv	/e	N/A		N/A			All data	Kiln was down
53	2015.02.22	Non-Responsiv	/e	N/A	1	N/A	1		All data	Kiln was down
54	2015.02 23	Non-Responsi	/ <del>C</del>	N/A		N/A			All data	Kiin was down
55	2015.02.24	Non-Responsi	/e	N/A		N/A	L		All data	Kiin was down
56	2015 02.25	Non-Responsiv	/e	N/A	1	N/A	1		All data	Kiln was down
57	2015.02.25	Non-Responsiv	/e	N/A	1	N/A	1		All data	Kiln was down
58	2015.02.20	Non-Responsiv	/e	N/A	1	N/A	1		All data	Klin was down
59	2015.02.27	Non-Responsiv	/e	N/A	1	N/A			All data	Kiin was down
		Non-Responsiv	/e	N/A	1	N/A			All data	Kiln was down
60 61	2015.03.01	Non-Responsiv	/e	N/A	1	N/A			All data	Kin was down

Prepared by:	Duane Cannon	Date:	Jul <u>y</u> 16 <u>,</u> 2015	Page	11	of	15
File name: JPA	Jan-Jun 2015 Semi-Annual Repor	t.docx	Document number:	JPA-ALL-G	EN-SA-	033	



Plant:
Joppa, Illinois

Revision: 0

U.S. EPA Consent Decree Semi-Annual Report CEMS Data Contains Confidential
Durboss information

Joopa, Illinois

Data collection period:

01 Jan 2015 - 30 Jun 2015

D		Vila (aliaka i	Ston	k NO.	Stan	k SO <sub>2</sub>		Malfunction documentation		Data gap documentation
Days in		Kiln (clinker)		Intensity	Mass (*)	Intensity	CEMS	Wallettell docomentation		1
reporting	Date	production (*) [ton/d]	Mass (*)	[lb/ton KK]	(lb/d)		incident type	Explanation	Missing data	Explanation
period 62	2015.03.03	Non-Responsi	Ve	N/A	(ILI/U)	N/A			All data	Klin was down
63	2015.03.04	Non-Responsi	ve	N/A		N/A			All data	Klin was down
64	2015.03.05	Non-Responsi	ve	N/A		N/A			All data	Kim was down
65	2015 03.06	Non-Responsi	ve	N/A		N/A			Att data	Kiln was down
66	2015.03.07	Non-Responsi	ve	N/A		N/A			All data	Kiin was down
67	2015.03.08	Non-Responsi	ve	N/A		N/A			All data	Kiln was down
68	2015.03.09	Non-Responsi	ve	N/A		N/A			All data	Kiln was down
69	2015 03 10	Non-Responsi	ve	N/A		N/A	V .		All date	Kiln was down
70	2015 03.11	Non-Responsi	ve	N/A	1	N/A			All data	Klin was down
71	2015.03.12	Non-Responsi	ve	N/A	1	N/A	1 1		All data	Klin was down
72	2015.03.13	Non-Responsi	Ve	N/A		N/A			All data	Klin was down
73	2015.03.14	Non-Responsi	ve	N/A		N/A			All data	Kiin was down
74	2015.03.15	Non-Responsi	ve	N/A		N/A			All deta	Klin was down Klin was down
75	2015 03.18	Non-Responsi	ve	N/A		N/A			All data	
76	2015.03.17	Non-Responsi	ve	N/A	l	N/A			All data	Kiln was down Kiln was down
77	2015.03 18	Non-Responsi	ve	N/A	1	N/A	1 1		All data	
78	2015.03.19	Non-Responsi	ve	N/A		N/A			All date	Kiin was down Kiin was down
79	2015.03.20	Non-Responsi	ve	N/A		N/A	j 1		All data	Kiin was down
80	2015.03.21	Non-Responsi	ve	N/A		N/A	1		All data	Klin was down
81	2015.03.22	Non-Responsi	ve	N/A		N/A	1		All data	Kiin was down
82	2015.03.23	Non-Responsi	ve	N/A		N/A	1 1		All data	Kiin was down
83	2015.03.24	Non-Responsi	ve	N/A	1	N/A	!!		All data	Kiln was down
84	2015.03.25	Non-Responsi	Ve	N/A		N/A	1 1		All data	Klin was down
85	2015.03 26	Non-Responsi	ve	N/A	1	N/A	1 1		All data	Kiin was down
86	2015.03.27	Non-Responsi	ve	N/A	1	N/A N/A	1 1		All data	Kiln was down
87	2015.03.28	Non-Responsi	ve	N/A		N/A	1 1		All data	Kiln was down
88	2015 03.29	Non-Responsi	ve	N/A N/A		N/A	1 1		All dala	Kiln was down
89	2015 03.30	Non-Responsi	ve	N/A		N/A N/A	1 1		All data	Kiin was down
90	2015.03.31	Non-Responsi	ve	N/A		N/A			All data	Kiin was down
91	2015.04.01	Non-Responsi	ve	N/A	1	N/A	1		All data	Klin was down
92	2015.04.02	Non-Responsi	ve	N/A	16	N/A	1 1		All data	Klin was down
93 94	2015.04.03	Non-Responsi	ve	N/A	II.	N/A	1 1		All data	Klin was down
95	2015.04.05	Non-Responsi	ve	N/A	1	N/A	! !		All data	Kiin was down
96	2015 04.05	Non-Responsi	ve	N/A		N/A	1		All data	Kiln was down
97	2015.04.06	Non-Responsi	ve	N/A		N/A	1		All data	Kiln was down
98	2015.04.08	Non-Responsi	ve	N/A		N/A			All data	Klin was down
99	2015.04.09	Non-Responsi	ve	N/A		N/A			All data	Kiln was down
100	2015 04.10	Non-Responsi	ve	N/A		N/A	1 1		All data	Klin was down
101	2015 04.11	Non-Responsi	ve	N/A		N/A	1 1		All data	Kiin was down
102	2015.04.12	Non-Responsi	ve	N/A		N/A	1		All data	Kiln was down
103	2015.04.13	Non-Responsi	ve	N/A	V	N/A			All data	Kiln was down
104	2015.04.14	Non-Responsi	ve	N/A	1	N/A	1 1		All data	Kiln was down
105	2015.04 15	Non-Responsi	ve	N/A	1	N/A			All data	Kiln was down
106	2015,04.16	Non-Responsi	ve	N/A		N/A			All data	Kiin was down
107	2015.04.17	Non-Responsi	ve ve	N/A	1	N/A			All data	Kiln was down
108	2015 04 18	Non-Responsi	ve	N/A	1	N/A			All data	Kiln was down
109	2015.04.19	Non-Responsi	ve	N/A		N/A			All data	Kiin was down
110	2015.04.20	Non-Responsi	ve	N/A		N/A			All data	Klin was down
111	2015.04.21	Non-Responsi	ve	N/A		N/A	1 1		All data	Kiin was down
112	2015 04.22	Non-Responsi	ve	N/A	1	N/A	1		All data	Kin was down
113	2015.04.23	Non-Responsi	ve	N/A		N/A	1		All data	Kiin was down
114	2015.04.24	Non-Responsi	ve	N/A		N/A			All data	Klin was down
115	2015.04.25	Non-Responsi	ve ve	N/A		N/A	1 1		All data	Kiin was down
116	2015.04.26	Non-Responsi	ve	N/A		N/A	1 1		All data	Klin was down
117	2015.04.27	Non-Responsi	ve	N/A		N/A	1 1		All data	Kiln was down
118	2015.04.28	Non-Responsi	ve	N/A		N/A	1 1		All data	Kiin was down Kiin was down
119	2015 04.29	Non-Responsi	ve ve	N/A		N/A	1 1		All data	
120	2015 04 30	Non-Responsi	ve	N/A		N/A	1 1		All data	Kiln was down
121	2015.05.01	Non-Responsi	ve	N/A	1	N/A	1 1		All data	Kiln was down
122	2015 05.02	Non-Responsi	ve	N/A	I.	N/A	I. I.		All data	Kiin was down

Prepared by:	Duane Cannon	Date:	July 16, 2015	Page	12	of	15
File name: JPA J	an-Jun 2015 Semi-Annual Report.docx		Document number:	JPA-ALL-G	EN-SA-	033	



Pla	nt:
Joppa,	Illinois
Revision:	0

U.S. EPA Consent Decree Semi-Annual Report CEMS Data Coutains Confidential Suninces Information

Joppa, Illinois

Data collection period: Submittal date: 01 Jan 2015 - 30 Jun 2015 16 July 2015

Days in		Kiln (clinker)	Stan	k NO,	Stack	(SO <sub>2</sub>		Malfunction documentation		Data gap documentation
eporting		production (*)	Mass (*)	Intensity	Mass (*)	Intensity	CEMS	Mananoton documentation		1
period	Date	[ton/d]	[lb/d]	fib/ton KK1	[lb/d]		incident type	Explanation	Missing data	Explanation
123	2015.05.03	Non-Responsiv	/e	N/A		N/A	, 1		All data	Kiin was down
124	2015.05.04	Non-Responsiv	/e	N/A		N/A			All data	Kiin was down
125	2015.05.05	Non-Responsiv	/e	N/A		N/A			All data	Kiln was down
126	2015.05.08	Non-Responsiv	<b>/</b>	N/A		N/A			Ali data	Kiln was down
127	2015.05.07	Non-Responsiv	/e	N/A		N/A			All data	Kfin was down
128	2015.05.08	Non-Responsiv	/e	N/A		N/A			All data	Kiin was down
129	2015.05.09	Non-Responsiv	/e	N/A		N/A	V		All data	Kiln was down
130	2015.05.10	Non-Responsiv	<b>/e</b>	N/A		N/A			All data	Kiin was down
131	2015.05.11	Non-Responsiv	<b>/e</b>	N/A		N/A			All data	Kiin was down
132	2015.05.12	Non-Responsiv	/e	N/A	1	N/A			All data	Kifn was down
133	2015.05.13	Non-Responsiv	/e	N/A		N/A			All data	Kiln was down
134	2015.05.14	Non-Responsiv	<b>/</b>	N/A		N/A			All data	Kiin was down
135	2015.05.15	Non-Responsiv	/e	N/A		N/A			All data	Kiln was down
136	2015.05.16	Non-Responsiv	/e	N/A		N/A			All data	Kiin was down
137	2015.05.17	Non-Responsiv	<b>/e</b>	N/A		N/A			All data	Kiln was down
138	2015.05 18	Non-Responsiv	<b>/e</b>	N/A		N/A			All data	KBn was down
139	2015.05.19	Non-Responsiv	<b>/e</b>	N/A		N/A			All data	Kiln was down
140	2015.05.20	Non-Responsiv	/e	N/A		N/A			All data	Kiln was do wn
141	2015.05 21	Non-Responsiv	/ <del>C</del>	N/A		N/A			All data	Kiln was down
142	2015.05.22	Non-Responsi	10	N/A		N/A			All data	Kiln was down
143	2015.05.23	Non-Responsiv	/e	N/A		N/A			All data	Kiin was down
144	2015.05.24	Non-Responsiv	/e	N/A		N/A			All data	Kiln was down
145	2015.05.25	Non-Responsiv	/e	N/A		N/A			All data	Kin was down
146	2015.05.26	Non-Responsiv	<b>/e</b>	N/A		N/A			All data	Kiin was down
147	2015.05.27	Non-Responsiv	<b>/e</b>	N/A		N/A			All data	Kiln was down
148	2015.05.28	Non-Responsiv	<b>/e</b>	N/A		N/A			All data	Kiln was down
149	2015.05.29	Non-Responsiv	<u>/e</u>	N/A		N/A			All data	Kiin was down
150	2015.05.30	Non-Responsiv	/e	N/A		N/A	V I		All data	Kiln was down
151	2015.05.31	Non-Responsiv	/e	N/A		N/A			All data	Kiin was down
152	2015.06.01	Non-Responsiv	/e	N/A	1	N/A			All data	Kiin was down
153	2015.06.02	Non-Responsiv	/e	N/A	1	N/A			All data	Kiin was down
154	2015,06,03	Non-Responsiv	<b>/e</b>	N/A		N/A			All data	Klin was down
155	2015.06.04	Non-Responsiv	<b>/e</b>	N/A		N/A			All data	Kiin was down
156	2015.06.05	Non-Responsiv	<b>/e</b>	N/A		N/A			All data	Kiln was down
157	2015,06.06	Non-Responsiv	<b>/e</b>	N/A		N/A			All data	Kiln was down
158	2015.08.07	Non-Responsiv	/e	N/A		N/A			All data	Klin was down
159	2015.06.08	Non-Responsiv	/e	N/A		N/A			All data	Kiln was down
160	2015.06 09	Non-Responsiv	<b>/</b>	N/A		N/A			All data	Kiln was down
161	2015.08.10	Non-Responsiv	/e	N/A		N/A			All data	Kiln was down
162	2015.06.11	Non-Responsiv	<b>/e</b>	N/A		N/A			Alldata	Klin was down
163	2015.08.12	Non-Responsiv	<del>/e</del>	N/A		N/A			All data	Klin was down
164	2015.06.12	Non-Responsiv	<u>/e</u>	N/A		N/A			All data	Kiln was down
165	2015.06.14	Non Responsiv	/e	N/A		N/A			All data	Klin was down
166	2015.06 15	Non-Responsiv	/ <u>C</u>	N/A		N/A			All data	Kiln was down
167	2015.06 16	Non-Responsiv	/e	N/A		N/A			All data	Kiln was down
168	2015.06.17	Non-Responsiv	/e	N/A		N/A			All data	Kiln was down
169	2015.06 18	Non-Responsiv	/e	N/A		N/A			All data	Klin was down
170	2015 06 19	Non-Responsiv	<del>/e</del>	N/A		N/A			All data	Kiin was down
171	2015.06.20	Non-Responsiv	<b>/e</b>	N/A	l	N/A			All data	Kiln was down
172	2015.08.21	Non-Responsiv	/e	N/A		N/A			All data	Kiin was down
173	2015.06.22	Non-Responsiv	/e	N/A		N/A			All data	Kiin was down
174	2015.08.23	Non-Responsiv	/ <del>C</del>	N/A		N/A			All data	Kiin was down
175	2015.06.24	Non-Responsi	/ <u>e</u>	N/A		N/A			All data	Kiin was down
176	2015.06.25	Non-Responsiv	/e	N/A		N/A			All data	Kiin was down
177	2015.06.25	Non-Responsiv	/e	N/A		N/A			All data	Kiin was down
178	2015.06 26	Non-Responsiv	/e	N/A		N/A			All data	Kiin was down
179		Non-Responsiv	/e	N/A		N/A			Ali data	K∄n was down
180	2015.06.28	Non-Responsiv	<b>/e</b>	N/A		N/A			All data	Kiin was down
100 1	2015.00 29	Non-Responsiv	<b>/</b> €	N/A N/A	1	N/A			All data	Kiin was down

Prepared by:	Duane Cannon	Date:	July 16 <u>,</u> 2015	Page	13	of	15
File name: JPA J	an-Jun 2015 Semi-Annual Report.docx		Document number:	JPA-ALL-G	EN-SA-	033	



Plant:
Joppa, Illinois
Revision: 0

Appendix B: Facility-wide 12-month rolling tonnage calculations

Prepared by:	Duane Cannon	Date:	July 16, 2015	Page	14	of	15
File name: JPA J	an-Jun 2015 Semi-Annual Report.do	CX	Document number:	JPA-ALL-G	EN-SA-	033	



Plant:
Joppa, Illinois
Revision: 0

U.S. EPA Consent Decree 12-Month Rolling Tonnage

June

2015

Contains Confidentis

363

Data collection period: 01 Jan 2015 to 30 Jun 2015 Joppa, Illinois
Facility-wide (all kilns) (\*) CONFIDENTIAL BUSINESS INFORMATION Submittal date: July 2015 Stack NO<sub>x</sub> mass rate(\*) 12-mo rolling **Plant** tonnage [lb/mo] | [ton/mo] [lb/mo] [ton/mo] [ton/mo] [lb/mo] [ton/mo] [lb/mo] [ton/mo] [lb/mo] [ton/mo] [ton] Month Year 2014 February 2014 March 2014 2014 May June 2014 July 2014 August 2014 September 2014 October 2014 November 2014 December 2014 470 2015 January 441 February 2015 387 March 2015 407 2015 April 423 May 2015 428 June 2015 Stack SO<sub>2</sub> mass rate(\*) 12-mo rolling **Plant** tonnage [lb/mo] [ton/mo] [lb/mo] [ton/mo] [lb/mo] [ton/mo] [lb/mo] [ton/mo] [ton] [ton/mo] Month Year [lb/mo] February 2014 2014 March 2014 April 2014 May 2014 June 2014 July August 2014 September 2014 October 2014 November 2014 2014 December 440 2015 January 433 2015 February 439 2015 March 420 2015 April 384 May 2015

**END OF REPORT** 

Prepared by:	Duane Cannon	Date:	July 16, 2015	Page	15	of	15	
File name: JPA J	an-Jun 2015 Semi-Annual Report	.docx	Document number: JPA-ALL-GEN-SA-033					